

Behrent F. A.

that a topological space S is compact, if and only if S is regular and possesses a normal base, i.e., a base Σ of open sets satisfying (1) if $A, B \in \Sigma$, then $A \cap B \in \Sigma$; (2) if $A \in \Sigma$ then the complement of A is an element of Σ ; (3) for any open subset U of S and any $A \in \Sigma$ such that $A \subset U$, there exists $B \in \Sigma$ such that $A \subset B \subset \bar{B} \subset U$. The present author shows, using (1), that conditions (1) and (2) are not required for this conclusion.

D. W. Hall

5/3

Send

CZECHOSLOVAKIA/Magnetism - Ferrites and Ferrimagnetism.

F

Abs Jour : Ref Zhur Fizika, No 11, 1959, 25140

Author : Bergstein, Arnost; Behun, Antonin

Inst : -

Title : Thermographic Determination of the Reaction of Manganese Ferrite with the Aid of Exoelectronic Emission.

Orig Pub : Czechosl. fiz. zh., 1957, 7, No 4, 489-494

Abstract : The authors have measured the temperature dependence of exoelectronic emission of sintered specimens with chemical composition $\text{Fe}_2\text{O}_3 \cdot 0.915 \cdot \text{MnO}_1.33 \cdot 0.043 \text{SiO}_2$, consist, in accordance with the x-ray pattern, of a mixture of manganese ferrites (MnFe_2O_4), Fe_2O_3 , and Mn_2O_3 . The curves obtained were compared with curve of stretching and of the thermal emfs. Agreement was obtained between the temperature of the maximum of exoelectronic emission and the temperatures at the kink or at the maximum and minimum of the curves that represent the remaining properties.

Card 1/2

BEHUN, M.; ARPAT, J.

Experiments with surface disinfection of meat by chlortetracycline before freezing. (Supplement) p. 18

PRUMYSL POTRAVIN. (Ministerstvo potratinarskyho prumyslu) Praha, Czechoslovakia
Vol. 18, no. 1, January 1959

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 7, July 1959
Uncl.

BERUN, Miroslav

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: Engr

Affiliation: Research Institute of Freezing Technology (Vyzkumny ustav mrazicarsky), Bratislava

Source: Bratislava, Nasa Veda, Vol VIII, No 8, 1961, pp 471-473.

Data: "Ultrasonics in the Food Industry."

SULC, Stefan, ins.; BEHUN, Miroslav, ins.

Progress in refrigeration techniques. Tech praca 14 no.12:
960-962 D '62.

1. Vyskumny ustav mrasiarensky, Bratislava.

BEHUNCIK, Jozef, inz.; BALOUN, Jaroslav; PROCHAZKA, Miroslav

~~Some experiences of the Hutne stavby National Enterprise, Kosice.~~
Pozemni stavby 13 no.4:132-134 '65.

1. Hutne stavby National Enterprise, Kosice (for Behuncik and Baloun). 2. Ministry of the Building Industry, Prague (for Prochazka).

FUKAL, R., MUDr.; BEHUNEK, J., MUDr.; VAGUNDA, S., MUDr.

Case of giant neurinoma. Cesk. neur. 19 no.4:268-270 Nov 56.

1. Z neurolog. odd., chir. odd. a prosektury KUMZ Gottwaldov
Prednostove: Prim. Dr. E. Muller, prim. Dr. V. Loutocky, prim.
E. Vanecek.

(NEURILEMMOMA, case reports,
sciatic nerve, giant case (Cs))

(NERVES, SCIATIC, neoplasms,
neurilemmoma, giant case (Cs))

BEIBUTOV, Sh.M.

Experience in radiotherapy for patients with cancer of the
esophagus on the GUT-400 telegamma apparatus. Vop.onk. 6
87-93 '60. (MIRA 13:10)
(ESOPHAGUS—CANCER) (GAMMA RAYS—THERAPEUTIC USE)

EXCERPTA MEDICA Sec 4 Vol 12/3 Med. Micro. Mar 59

1044. IMMUNE PANCYTOPENIA WITH HETEROPHYLIC ANTIBODIES IN ACUTE INFECTIOUS HEPATITIS WITH SEVERE MYOCARDITIS - Immunpancytopenie mit Auftreten heterophiler Antikörper bei akuter Hepatitis epidemica kompliziert durch eine schwere Myocarditis - Beickerl A. and Siering H. Med. Univ.-Klin., Jena - ACTA HAEMAT. (Basel) 1958, 19/1 (51-61) Graphs 3 illus. 5

A fatal case of pancytopenia developed in the 5th week of a virus hepatitis. There were auto-antibodies against red cells, white cells and platelets in the blood, which were partly heterophil in character. It is suspected that the sensitization did not arise from the virus of hepatitis but from autolysed liver substance reaching the blood stream. A similar mechanism may have acted in the severe myocarditis which occurred at the same time.

(VI, 4, 18, 50)

HIRSCH, Gunther, ins.; BEIER, Gert, ins.; MUZIKA, Jaroslav[translator]

Standardization of the widths and diameters of machine tool
tables, T-slot distances and adaption of T-slot width.
Normalizace 11 no.7:207-213 JI '63.

1. Institut fur Werkzeugmaschinen, Karl-Marx-Stadt (for Hirsch
and Beier).

BEIGER, MARIA.

SCIENCE

BEIGER, MARIA. Uzupełnienie do znajomości fauny białowin minujących runa lasnego Wielkopolskiego Parku Narodowego. Poznań, Państwowe Wydawn. Naukowe, 1958. 25 p. (Prace monograficzne nad przyrodą Wielkopolskiego Parku Narodowego pod Poznaniem, t. 3 zesz. 3)

Monthly List of East European Accessions (EEAI) LC. Vol. 8, No 4,
April 1959, Unclass.

BEIGER, Maria, dr

Studies on mining insects of the Tatra National Park. Pt. 2.
Sciences biol Biul Poznan no.4:55-60 '64.

1. Institute of Systematic Zoology, A Mickiewicz University,
Poznan.

BEIGEROWNA, M.

Materials to the knowledge of the fauna of mixing insects with special consideration of Western Poland. p.199.

BADANIA FIZJOGRAFICZNE NAD POLSKA ZACHODNIA. Poznan, Poland. Vol.4, 1958.

Monthly List of East European Accessions Index (EEAI), LC. Vol. 8, No. 9, September 1959
Uncl.

BEIKOV, M.

"Need of a standard for laboratory determination of the degree of granularity of construction soil and the establishment of the standard."

p. 33 (Ratsionalizatsiia) Vol. 7, no. 4, April 1957
Sofia, Bulgaria

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

BEIKOV, M.: TOSHKOV, E:

Electroosmosis; laboratory experiments in electroosmosis. Utilization of electroosmosis for stabilization of weak soils. p. 22. (Stroitelstvo, Sofia)

SO: Monthly List of East European Accession (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

BEIKOV, Metodi, inzh.

Calibration of aerometers, and nomogram for determining granulometric composition. Khidrotekhnika i melioratsiya no.7:213-215 '64.

BEILICKY T. 11

Der. Klin., Praha. *Melkersson-Rosenthaluv syndrom a jeho problematika. The Melkersson-Rosenthal syndrome and its problems CSL. DERM. 1953, 28/7 (283-292) Illus. 6 Two typical cases of the syndrome (recurrent oedema of lips, facial paresis and lingua plicate) are described. Lip biopsy showed lymphangioma in one case and the picture of cheilitis granulomatosa (Miescher) in the second, there being signs of Besnier-Boeck-Schaumann disease or of tb in the latter case. The attempts of some German authors to identify the syndrome with cheilitis granulomatosa or to negate its existence altogether seem to be premature. Excision proved successful. Schwank - Prague

SO: Excerpta Medica
Section XIII
Vol. 9 No. 1

BEILINSKA-GZARNECKA, M.; DZIECIOL, U.; DAWYDKO, B.

Comparison of spurs and leaves of annually and biennially bearing apple trees of Perkins variety in respect to their content of nitrogen compounds. Acta agrobot 16:133-144 '64.

1. Instit of Pomology, Skierniewice. Submitted February 25, 1964.

BBILOV, A.

The collective is the best teacher. Sov.profsoiuzy [8]
no.3:23-24 P '60. (MIRA 13:2)

1. Predsedatel' rabocheho profsoyusa Novosalekseyevskogo
sovkhosa, Kustanayskoy oblasti.
(Trade unions) (Disorderly conduct)

oil production causes not only these losses but also a drop in pressure which will undoubtedly prevent fullest recovery of oil in the future. Up to now only small quantities of C_3 , C_4 , and D_6 fractions are recovered. In the Soviet-Hungarian concession between left bank of the Danube and Roumanian and Yugoslav borders prospecting results are promising, especially in Alföldu. I. P.

BEIN, K.

Dr med. Jadwiga Matuszewiczówna. Klin. ocena 24 no.3:239-240 1954.
(OBITUARIES,
Matuszewiczówna, Jadwiga)

BEINARTS, I.

GENERAL

PERIODICALS: VESTIS No. 2, 1958

BEINARTS, I. Hydrolysis of wood by means of a small quantity of hydrogen chloride.
In Russian. p. 71

Monthly list of East European Accessions (FEAT) IC, Vol. 8, No. 2,
February 1959, Unclass.

REINHARTS, L.

GENERAL

PERIODICALS: VESTNIK No. 3, 1958

REINHARTS, L. Effect of concentrated sulfuric acid on birch cellulose.
In Russian. p. 67

Monthly list of East European Accessions (KEAI) LC, Vol. 8, No. 2,
February 1959, Unclass.

NIKLEWICZ-RODKIEWICZ, Jadwiga; WIERZBINSKA-ZAROWNY, Danuta; REISTER,
Alicja; MISZCZANSKI, Tadeusz.

Physical exercises in early stages of rheumatic fever in
children. Reumatologia (Warsz.) 1 no.3-4:275-280 '63.

1. Z Wojewodzkiego Ośrodka Reumatologicznego w Sopocie
(Dyrektor: dr J. Titz-Kosko).

BEITL, Zdenek, inz.

General repair and maintenance of airports. Latecky obzor 7
no.8x228-231 Ag '63.

BEITL, Zdenek, inz.

Repair of bituminous pavements at the Praha-Ryzyne Airport. Letecky
obzor 7 no.10:296-299 0 '63.

BEITLER, Leonard

Cooperation of electrical engineering in the completion of
the equipment of large industrial plants. Elektrotechnik
17 no.10:277-278 0 '62.

1. Elektromontazni zavody, Praha.

BEIU, E.

BEIU, E. Measures to improve production at the Prefabricated Parts Plant in Turda. p. 2. Vol. 7, no. 296, Sept. 1955. CONSTRUCTORUL. Bucuresti, Rumania.

SOURCE: East European Accesssions List (EEAL) LC, Vol. 5, no. 6 June 1956

BEIYER, V.A., prof.; BELOV, N.A.

Modifications in the bone marrow and peripheral blood in burns:
Probl.gemat.i perel.krovi 1 no.1:23-29 Ja-F '56. (MIRA 14:1)

1. Iz kafedry fakul'tetskoy terapii (nach. - prof. V.A. Beiyer)
i kafedry gospi'tal'noy khirurgii (nach. prof. I.S. Kolesnikov)
Voenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.
(BURNS AND SCALDS) (BLOOD CELLS)

BEIZMAN, B.B.

Special approach of the medical personnel to cancer patients. Med.
sestra, Moskva No.8:18-22 1951. (CML 21:1)

BEIZMAN, B. B.

Rectum - Cancer

Cancer of the rectum. Med. sestra no. 4, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED.

BEIZMAN, B.B.

Organisation of control of cancer in USSR, *Prak. lek.*, Praha 33 no.3:66-
69 5 Feb 1953. (CINL 24:5)

1. Translated parts of the text of the book published by MEDGIZ in
1950, Russia.

BEJAKOVIC, Drazan, naucni saradnik (29.novembra br. 20, Beograd)

Competition between various transportation branches and
coordination of traffic. (Example of Great Britain).
Tehnika Jug 17 no.5:Suppl.: Saobracaj 9 no.5:977-986 My '62.

1. Saobracajni institut, Beograd.

BEJAN, Costel, absolvent (Gaeati)

Solved problems; problem E: 1629. Gas mat B 13 no.3:164 Mr '62.

IANU, A.; TEODORESCU, Gr.; BEJAN, C.; POPESCU, P.; NICULESCU, I.; IANCU, A.M.

Study on obtaining alkaline chlorites from native raw materials.
Bul Inst Politeh 25 no.6:83-89 N-D '63.

1. Chair of Inorganic and Analytic Chemistry, Polytechnic Institute,
Bucharest.

BEJAN, C.; NICULESCU, I.; POPESCU, F.; IANCU, A.M.

Rapid methodr of analysis of salts in galvanic baths.
Bul Inst Politeh 26 no.3:87-97 My-Je '64.

1. Chair of Inorganic and Analytical Chemistry, Polytechnic
Institute, Bucharest.

POPOVICI, S.; REBREANU, L.; BEJAN, I.

Stimulating action of certain microelements upon the growth of
suckling pigs. Note I. Studii agr Timisoara 8 no.1/2:65-72 '61.

(Swine breeding) (Growth) (Cobalt chlorides)

VLADEA, I.; BARBU, V.; UNGUREANU, C.; BEJAN, I.; THEIL, H.; COTOCIU,
Eleonora

Influence of the main parameters on the pulverization angle
of a rotary injector. Bul St si Tehn Tim 7:185-195 '62.

BEJAN, I.; BALABAN, E.

Experimental study on the automatic forcing of the synchronous motor excitation by the aid of magnetic amplifiers. Probleme automatis 4: 9-23 '63.

UNGUREANU, C., conf. ing.; BARBU, V., ing.; BEJAN, I., ing.; THEIL, H.
ing.; ARDELEAN, Z., ing.

Studies on the operation of the "Dinamo-Timisoara 2" type
injector. Energetica Rum 12 no. 7:318-324 J1 '64.

BEJAN, I.; UNGUREANU, C.; COTOCIU, E.; COJEREANU, P.; GUTMAYER, H.

Study of the pulverization uniformity in rotative injectors.
Bul St si Tehn Tim 9 no.1:57-64 Ja-Je '64.

Anesthesiology

RUMANIA

POPESCU, V., Colonel, Medical Corps; BEJAN, L., Physician Emeritus (medic emerit); CONSTANTINESCU, H., Major, Medical Corps; MOLDOVAN, I., Lieutenant-Colonel, Medical Corps; and STOICA, Gh., Ing.

"A Portable Apparatus for Anesthesia and Reanimation"

Ducharest, Revista Sanitara Militara, Voi 16, Special No., 1965; pp 68-73

Abstract: Description, photograph and schematic diagram of a portable anesthesia device, permitting closed, semi-closed or semi-open circuit for anesthetic intra-oral administration. Weight of 24 only kilograms permits easy transportation of apparatus.

RUMANIA / Human and Animal Morphology (Normal and Pathological). Methods and Technique of Investigation. S

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 16873

Author : Nanu, I.; Corondan, Gh.; Bejan, L.

Inst : Not given

Title : On the Application of Nitrocellulose Plastic in Making Corrosive Anatomic Preparations

Orig Pub : Morfol. normala si patol., 1958, 3, No 2, 115-122

Abstract : No abstract given

Card 1/1

ROSCA, Gr.; CRISTEA, A.; DOGOTERU, Victoria; BEJAN, Raisa

Fishing lines and cords made of polypropylene and polyethylene monofilaments. Ind alim 14 no.9:366-369 S'63.

1. Intreprinderea de plase si unelte pescaresti, Galati (for Dogoteru, Bejan).

MANESCU, L., prof. emerit (R. Vilcea); BEJAN, Mircea (Galati); MUNTEANU, Dumitru (Bistrita); SACTER, O.; SIMION, A. (Iasi); LEVIN, Alexandru, (Tallin, U.S.S.R.); HADIRCA, L., prof. (Brezia); LIVIU, Petre (Pucioasa); GRECU, Eftimie (Bucuresti); BENA, Dorin (Caransebes); SIMOVICI, Dan (Iasi); ILIE, Nicolae (Gaiesti); BOICESCU, Vlad (Craiova); VOICULESCU, Dan (Bucuresti); POPESCU, Adrian (Sibiu); PESTROIU, Daniel (Tirgu Jiu); NANUTI, Ion (Timisoara); MUSTA, St. (Oradea); POPESCU, Adriana (Sibiu); IONESCU-TIU, C.; LAZAR, Maria (P. Neamt); FOCSENEANU, M.I.; ACU, D. (Cluj); ZAMFIRESCU, Tudor; MOCANU, H. Ovidiu (Iasi); GEORGESCU, G. (Craiova); BERDAN, C. (Bacau); IACOMI, Ioana (P. Neamt)

Proposed problems. Gaz mat B 15 no.3:122-127 Mr '64.

OPREANU, I., Prof.; STROESCU, O., dr.; STANESCU, P., dr.; BATCU, A., dr.;
BEVAN, V., dr.

Biochemical changes in chronic evolutive polyarthritis and
ankylosing spondylitis. Med. int., Bucur. 9 no.1:53-66 Jan 57.

(ARTHRITIS, RHEUMATOID, metabolism
proteins, water & electrolytes)

(PROTEINS, metabolism
in rheum. arthritis & ankylosing spondylitis)

(BODY FLUIDS
water-electrolyte balance in rheum. arthritis &
ankylosing spondylitis)

(SPONDYLITIS ANKYLOSING, metab.
proteins, water & electrolytes)

FRANCHE, M., Conf.; BRAUNER, E., dr.; ANDRONOVICI, Gh., dr.; MIHUL, V., dr.;
BLINDU, P., dr.; FELER, H., dr.; VINTU, G., dr.; BEJENARU, G., dr.;
RADULESCU, Alex., dr.; SARARESSA, L., dr.; HURMUZACHE, C., prof.;
TUDORANU, O., dr.; SEGAL, B., dr.; MARCULESCU, G., dr.; LUNGU, I.,
dr., LUNGU, E., dr.; ZAHARESCU, T., dr.; BALMUS, P., conf.; BEJAN, V., dr.

Scarlatinal rheumatism. Med. int., Bucur. 9 no.1:67-70 Jan 57.

(RHEUMATIC FEVER, etiol. & pathogen.
scarlet fever, incidence & prev.)

(SCARLET FEVER, complications
rheum. fever, incidence & prev.)

ROMANIA/Human and Animal Physiology (Normal and Pathological).
Internal Secretion. Gonads. T

Abs Jour: Ref Zhur-Biol., No 17, 1958, 79886.

Author : Mandache, Fl.; Prodescu, V.; Lutescu, I.; Dejan, Z.

Inst :

Title : Appendicular Discinesia of Ovarian Origin.
(Gonad-Appendicular Syndrome in Woman. I. Experimental
Investigation.

Orig Pub: Studii si cercetari endocrinol. Acad. RPR, 1956,
7, No 1, 85-90.

Abstract: No abstract.

Card : 1/1

MANDACHE, FL.; PRODESCU, V.; IUTESCU, I.; BEJAN, Z.

Appendicular dyskinesia of ovarian origin; the gonado-appendicular syndrome in the female. Romanian M. Rev. 2 no.2:75-78 Apr-June 58.

(APPENDICITIS, etiol. & pathogen.

ovarian dysfunct. causing appendicular dyskinesia)

(OVARIES, dis.

funct. disord. causing dyskinesia & appendicitis)

BEJANCU, Aurel (Novaci)

On an inequality. Gaz mat B 15 no. 6:251 Je '64.

BEJAT, M.

Some data regarding the psychological concerns of Titu Maiorescu.
Rev psihologie 10 no.4:317-330 '64.

1. Institute of Psychology, Rumanian Academy, Bucharest.

Bejbl, A.

Bejbl, A. Experience with establishing standards in the industry of fine ceramics. p. 34.

Vol. 7, no. 2, Feb. 1957
SKLAR A KERAMIK
TECHNOLOGY
Czechoslovakia

So. East European Accessions, Vol. 6, May 1957
No. 5

BEJBL, A.

Picture of a workday in a factory; a sample of a right organization. p. 280.
(SKLAR A KERAMIK, Vol. 7, No. 9, Sept 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

BEJBLIK, Alois, dr.

Change in the concept of social security. Soc revue 8 no.2:69-79 '62.

BEJBLIK, A., dr.

International Social Security Association and the participation
of the State Office of Social Security in its activities.
Soc revue 8 no.1:44-48 '62.

JEKLER, J.; KOBYLKOVA, M.; BEJBLIKOVA, M.; KLOS, J.

Resection of the esophagus with transposition of the colon in children with recurrent hemorrhage in esophageal varices, previously treated by suturing. Rozhl. chir. 43 no.2:83-88 F'64.

1. II. chirurgická klinika fakulty všeobecného lékařství KU v Praze (prednosta: prof. dr. J. Lhotka); III. dětská klinika fakulty všeobecného lékařství KU v Praze (prednosta: prof. dr. O. Vychytil) a Dětská otolaryngologická klinika fakulty dětského lékařství KU v Praze (prednosta: doc. dr. J. Klos).

*

SLANINA, Josef, MUDr.; BEJBLOVA, Olga, MUDr.

Triopaque, a new contrast medium in urography. Cesk. roent.
10 no.2:81-83 June 56.

1. Z klinicke zakladny rentgen. katedry UDL, Praha 8. Bulovka.
Prednosta prim. Dr. J. Slanina.

(CONTRAST MEDIA,

sodium acetrisoate in urography (Cz))

(URINARY TRACT, radiography

contrast media, sodium acetrisoate (Cz))

PIRK, F.; BEJBLOVA, O.

Intermittent arteriomesenterial compression of the duodenum.
Cesk. rentgenol. 15 no.5:344-353 O '61.
(DUODENUM dis.) (MESENTERIC VESSELS dis.)

BEJBLOVA, O.; PIRK, F.

On the problem of the necessity of native roentgenography before
cholecystography. Cesk. rentgenol. 16 no.1:60-66 F '62.

1. Ustav pro vyzkum vyživu lidu, Praha-Krc, reditel doc. MUDr.
Josef Masek.

(CHOLECYSTOGRAPHY)

BEJCEK, Z.; SAFAR, V.; TOMAN, J.; URBAN, F.; ZIVNY, J.

Analysis of facial injuries treated at the stomatological
clinics of Prague. Cesk. stomat. 65 no.5:359-364 S '65.

1. I. stomatologicka klinika (prednosta prof. dr. J. Toman, DrSc.)
a II. stomatologicka klinika (prednosta prof. dr. F. Urban, DrSc.)
fakulty vseobecneho lekarstvi Karlovy University v Praze.

CZECHOSLOVAKIA

BEJCEK, Z.

First Stomatological Clinic of the Faculty of General
Medicine of Charles University (I. stomatologická
klinika fakulty všeobecného lékařství KU), Prague

Prague, Ceskoslovenská stomatologie, No 3, 1963, pp 184-
189

"Traumatic Shock in Stomatosurgical Practice."

BEJDA J.

Analysis of deformation in a short visco-elastic cylinder striking a rigid target, Bul Ac Pol tech 12 no.4:245-248 '64.

1. Department of Mechanics of Continuous Media, Institute of Basic Technical Problems, Polish Academy of Sciences. Presented by W. Olczak.

PERZYNA, P.; BENDA, J.

The propagation of spherical stress waves in a work-hardening and rate sensitive plastic medium. Bul Ac Pol tech 12 no.4: 283-290 '64.

1. Department of Mechanics of Continuous Media, Institute of Basic Technical Problems, Polish Academy of Sciences, Warsaw. Presented by W. Olszak.

BEJDOWSKY, V., prof. dr

Ocular burn by subconjunctival injection of diluted hydrochloric acid. Cesk. ofth. 10 no.3:181-186 Js '54.

1: Z oční kliniky Palackého university v Olomouci.

(EYE, wounds and injuries,

*hydrochloric acid burns)

(HYDROCHLORIC ACID, burns and injuries,

*eye burns)

BEJDA, Jozef

Analysis of deformation in a short visco-plastic cylinder striking a rigid target. *Archiw mech* 15 no. 6: 879-889 '63

1. Department of Mechanics of Continuous Media, Institute of Basic Technical Problems, Polish Academy of Sciences, Warsaw.

ACCESSION NR: AP4019648

P/0033/63/015/006/0879/0889

AUTHOR: Bejda, Jozef (Warsaw)

TITLE: Analysis of deformation in a short visco-plastic cylinder striking a rigid target

SOURCE: Archivum mechaniki stosowanej, v. 15, no. 6, 1963, 879-889

TOPIC TAGS: plasticity, collision, impulsive loading, impact, stress, compressive stress, shock wave, deformation, yield stress, plastic yielding, plastic deformation, strain, elastic strain, plastic strain, visco-plastic, elastic wave, creep limit, strain rate, strain rate sensitivity, plastic wave, plastic wave propagation

ABSTRACT: The present work was carried out because of the absence of a satisfactory method of analysis of deformations in strain-rate-sensitive plastic materials. Expressions are derived which give satisfactory results, if more than two material constants are used, to describe the behavior of the material over a large range of strain rate. The method may be extended to cover various types of structural materials. It appears that, for more exact analysis, the influence

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ACCESSION NR: AP4019648

of the temperature and compressibility in the plastic flow should be taken into consideration. Orig. art. has: 55 formulas and 4 figures.

ASSOCIATION: Department of Mechanics of Continuous Media, IBTP, Polish Academy of Sciences

SUBMITTED: 24May63

DATE ACQ: 27Mar64

ENCL: 00

SUB CODE: AP

NO REF SOV: 000

OTHER: 008

Card 2/2

L 24636-65 ENT(m)/EPF(c)/ENP(j)/ENP(b)/ENP(t) PC-4/Pr-4 JD/RM

ACCESSION NR: AP5002536

P/0033/64/016/006/1215/1214

AUTHOR: Perzyna, P. (Warsaw); Bejda, J. (Warsaw)

TITLE: The propagation of stress waves in a rate sensitive and work hardening plastic medium 26

SOURCE: Archiwum mechaniki stosowanej, v. 16, no. 6, 1964, 1215-1244

TOPIC TAGS: strain wave propagation, viscoelastic medium, plastic material, rate sensitive material

ABSTRACT: The paper presents solutions of certain boundary value problems for work-hardening and deformation-rate-sensitive plastic material. This is a continuation of an earlier investigation by the author dealing with the propagation of stress waves in a rate-sensitive plastic medium (AMP, v. 14, 1964, 1215-1244), but in the present paper more general equations are considered for the problem. It is assumed that the material can be treated like a viscoelastic plastic, for which the differential equations are written out. Four types of waves are considered: spherical, cylindrical radial, cylindrical shear, and plane. It is proved that for each of these types of waves, the work of plastic

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24636-65

ACCESSION NR: AP5002536

deformation on the front of the shock wave (strong discontinuity) is equal to zero. Consequently, the problem of a plastic medium with work hardening reduces to the ideal plastic problem, involving a nonlinear Volterra differential equation of the second kind. This equation is solved by the method of successive approximations in the zones of viscoelastic deformations behind the front of the wave. In the zones of strong or weak discontinuity, the problem is solved along the wave front by an approximate finite-difference method. In the zones of inelastic deformations, a unified form of equation is obtained for all waves, and the boundary conditions lead to the solution of the generalized Picard problem. Examples of the propagation of a spherical wave and of a plane wave in half-space are presented for the case of soft steel. Comparison of the results of the work-hardening theory and the theory of a perfect plastic shows that in practice the influence of work hardening can be neglected, at least in a certain range of deformation rates. "The authors thank the staff of the computing center of the Polish Academy of Sciences for valuable assistance in the programming of the computations." Orig. art. has: 15 figures, 3 tables, and 100 formulas.

ASSOCIATION: Department of Mechanics of Continuous Media, IBTP, Polish Academy of Sciences

Card 2/3

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OTHER: 009

Card 3/3

BIRZAN, Romanel, ing. (Cluj); DUMITRU, Acu (Nasaud); SANDULACHE, C., prof. (Negresti Iasi); SAVULESCU, Benone (Buzau); IONESCU-TIU, C.; PIRSAN, Liviu; PRAVAT, V.V. (Iasi); SACTER, O.; POPA, Eugen (Iasi); ZAMFIRESCU, Tudor; VOICULESCU, Dan (Bucuresti); ~~BEJANCU, Aurel~~; BARAS, Robert (Botosani); IARCHY, Tatiana, profesoara (Bucuresti); HADIRCA, I. (Breaza); JORA, S. Boris (Babadag); ROMAN, T.; COSTACHESCU, C.V. (Constanta)

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MICU, I., dr.; OVANESCU, Al., dr.; CUCIUREANU, Georgeta, dr.; BEJENARIU, C.,
dr.

Pyocyanic and staphylococcal septicopyohemia with pleural focus.
Med. intern., Bucur 12 no.10:1531-1536 0 '60.

1. Lucrare efectuata in Clinica de boli contagioase Iasi (director:
prof. Maria Franche).
(SEPTICEMIA etiol.) (STAPHYLOCOCCAL INFECTIONS case reports)
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BEJENARU, C., dr.; SIRMON, Elisabeta, dr.; BADEA, Ana, dr.; LUCA, A., dr.;
ONU, Mariana, dr.; BURDUJA, Ana, dr.; BELDIMAN, N., dr.

Contribution to the serological study of animal leptospirosis
in the region of Iasi. Microbiologia (Bucur) 10 no.2:147-152
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1. Laboratorul regional veterinar, Iasi (for Bejenaru, Sirmon,
Badea, Luca, Onu). 2. Laboratorul de zoonoze al Institutului
de igiena si protectia muncii, Iasi (for Burduja, Beldiman).

FRANCHE, M., Conf.; BRAUNER, E., dr.; ANDRONOVICI, Gh., dr.; MIHUL, V., dr.;
BLINDU, P., dr.; FELER, H., dr.; VINTU, G., dr.; BEJENARU, G., dr.;
RADULESCU, Alex., dr.; SABARESSA, L., dr.; HURMUZACHE, C., prof.;
TUDORANU, O., dr.; SEGAL, B., dr.; MARCULESCU, G., dr.; LUNGU, I.,
dr.; LUNGU, E., dr.; ZAHARESCU, T., dr.; BALMUS, P., conf.; BEJAN, V., dr.

Scarlatinal rheumatism. Med. int., Bucur. 9 no.1:67-70 Jan 57.

(RHEUMATIC FEVER, etiol. & pathogen.
scarlet fever, incidence & prev.)

(SCARLET FEVER, complications
rheum. fever. incidence & prev.)

BEJENARI, M. prof. (Cimpulung Moldovenesc)

Use of microphotographs and microscope at the classes of botany.
Natura Biologie 14 no. 1:73-76 Ja-F '62.

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Organization and development of review lessons in natural science.
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ROMANIA

BESNARU, Mihai, Professor, Ciurlung-Succave [affiliation
not given]

"Organization and Development of Review Lessons in the
Natural Sciences."

Bucharest, Natura, Seria Biologie, Vol 15, No 1, Jan-Feb
1963, pp 63-70.

Abstract: Designed for teachers of the natural sciences,
the article includes a detailed syllabus for the review
lesson in zoology for grade 9, anatomy and human physio-
logy for grade 10, and foundations of Darwinism for grade
11.

Includes 2 Rumanian references.

1/1

ROMASCANU, Mircea, ing.; BUDAI, Teodor, ing.; BEJENARU, Nicolaie,
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Large panel construction, a rapid, productive, and economical
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Induction heating in the forging industry. p. 156. KOHASZATI LOPAK.
(Magyar Banyaszati es Kohaszati Egyesulet) Budapest Vol. 10, No. 4,
Jan. 1955

SOURCE: East European Accessions List (EEAL) Library of Congress
Vol. 5, No. 6, June 1956

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Medium-frequency power transformer for induction heaters. Villamosság
ll. no.3:68-74 Mr '63.

1. Erosaramu Gyartmanyfejlesztési Intezet.

L 45653-66 EWP(t)/ETI IJP(c) JD

ACC NR: AP6033889

SOURCE CODE: HU/0014/65/098/010/0472/0476

AUTHOR: Beji Szabo, Dezso (Graduate mechanical engineer)

ORG: none

TITLE: Economic operating conditions of steel-making arc furnaces

SOURCE: Kohaszati lapok, v. 98, no. 10, 1965, 472-476

TOPIC TAGS: arc furnace, metallurgic furnace

ABSTRACT: Problems of economic operation of steel-making arc furnaces. Electrical and thermal efficiencies, factors influencing the electrode consumption. Principal characteristics of electrode control and requirements concerning modern electrode control equipment. The correct relations between productivity and economics and the most important tendencies to be introduced into the operation of arc furnaces. Orig. art. has: 9 figures. [Based on author's Eng. abst.] [JPRS]

SUB CODE: 13 / SUBM DATE: none

Card 1/1 fv

UDC: 669.187.2:621.3.036.6.003.1

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Commercial refrigerator HK-500. Elektroprivreda 14 no.7/8:413 J1-Ag '61.

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Closed refrigerating boxes of the Velebit-B type. Elektroprivreda 14
no.7/8:414 J1-Ag '61.

BEJLERI, A.

Special attention should be paid to safety measures for workers,
p. 19, TEKNIKA, (Ministria Industri-Miniera dhe Ndertim-Komunikacion)
Tirane, Vol. 3, No. 1, Jan./Feb. 1956

SOURCE: East European Accessions List, (EEAL) Library of Congress,
Vol. 5, No. 12, December 1956

BEJLERI, A.

TECHNOLOGY

Periodical TEKNIKA. Vol. 5, no. 4, July/Aug. 1958.

BEJLERI, A. Some damages to machinery under pressure and the way to avoid them. p. 16.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3, March, 1959. Uncl.

BEJLICHIZ, G.A.

Professional group poisoning in 1914 and the campaign of Russian workers for health legislation. Pracovni lek. 6 no.5:320-322
15 Oct 54.

1. 2 okresni hyg. epid. stanice, Moskva

(INDUSTRIAL HYGIENE

in Russia, mass occup. pois. in 1914 & fight for indust.
legislation)

BEJLICHIS, G.A.

Activities of medical societies in the pre-revolutionary Russia in
protecting workers' health. *Prac. lek.* 14 no.9:433-436 N '62.

(HISTORY OF MEDICINE: XX CENT) (INDUSTRIAL MEDICINE)

(SOCIETIES MEDICAL)

BEJM, Bogdan

Outlines of the history of hat manufacture in Poland. Przegl
wlokien 16 no.3:163-165 Mr '62.

BEJN, EGOAR

Vliyaniye legiruyushchikh elementov na svoystvo stali (Influence of
alloying elements on the properties of steel).

Moscow 1945. (Translation?)

Bejma 4 CA		PROCESSING AND PROPERTIES NOTES	
Agglomeration of powdered ores and preparation of ores rich in silicon and poor in iron. Ferruc Bejma. <i>Adydas. Kold n. Lepok 77, 181-60(1044)</i>—Ignited powd. pyrite ore contg. SiO₂ 1.80, Al₂O₃ 0.30, CaO 0.90, Fe, 65.00, Mn 0.20, S 1.44, and P 0.03% was mixed with equal parts of red mud obtained in the manuf. of Al₂O₃ from bauxite and contg. SiO₂ 6.35, Al₂O₃ 25.01, CaO 3.00, MgO 0.42, Na₂O 2.20, TiO₂ 4.06, Fe 32.80, Mn 0.28, S 0.32, P 0.43%, briquetted, and ignited at 1300°. The compn. of the product was SiO₂ 7.94, Al₂O₃ 12.40, CaO 2.64, MgO 0.65, Na₂O 1.00, TiO₂ 3.65, Fe 51.80, Mn 0.21, S 0.16, and P 0.25%. It was very suitable for metallurgical purposes. The working-up of other ore types is discussed, and some practical examples are given. István Fialdy		9	
ASD-SEA METALLURGICAL LITERATURE CLASSIFICATION			
10000 110-01190			
10000 110-01190			

534. SURFACE THEORY OF COMBUSTION. Bejna, F. (Banyassati es Kohassati Lapok, 1949, vol. 4, Apr., 147-155; May, 195-202).

The author analyzes the results of combustion experiments carried out with fuel oil on the basis of a theory of surfaces with the object of finding the relation between the quantity of the burned fuel, time, flame size, and temperature. He shows that, by analysing the influence of variations of the individual factors on sections in various planes, the interrelation of these factors can be determined. He distinguishes between the normal surface combustion for which the flame concentration (the amount of fuel burnt per minute per unit of flame surface) is constant, the temperature increasing with increasing flame area, and the isothermic combustion for which the intensity of the whole flame is constant but the flame concentration varies and becomes smaller if the flame size increases. If the size of an isothermic flame is reduced, the decrease is accompanied by an increased flame concentration, an higher temperature, and a greater liberation of heat. According to calculations for a given practical

example the flame temperature of a fuel oil flame increases from 1228°C. to 1800°C. if the flame size is reduced from 31 to 10 sq. c.m. This increase has been confirmed experimentally. It is likely that similar results would be obtained with gaseous fuels as gases mix with air more thoroughly than fuel oil. The results obtained lead to the conclusion that the temperature obtained can be considerably increased by reducing the flame size without it being necessary to preheat the gas and/or combustion air. As the flame concentration controls the temperature obtained and heat released, the author recommends that burners and furnaces be designed to permit regulation of the flame concentration.

42. Nomograms on the basis of the surface theory elaborated for the functions representing the weight and the dimensions of tubes, by T. Hryha. (Hányasati és kötéscati lapok) — Hungarian Journal of Mining and Metallurgy — Vol. V. (LXXXIII), No. 1, pp. 49-56, Jan. 1960.

As is known the unit length weight of a tube of constant specific weight is proportional to the square of the difference between the outer and inner diameter. Consequently, the changes in weight are caused by the changes in diameter. The respective nomograms are determined by lines arising from sections formed by the surface curves of the function and the planes confounding in concrete cases. Abundant charts and figures are provided as an aid to resolving the problems. Practical examples are also solved. In the opinion of the author the nomograms elaborated on the basis of the surface theory are much simpler than those elaborated by the usual nomography.

42.5.5.6 METALLURGICAL LITERATURE CLASSIFICATION

16

BEJNA, F.

BEJNA, F. Metallurgy of mirror iron production. n. 117.

Vol. 12, no. 1/4, 1954, Budapest, Hungary KOZLEMLYEI

SO: Monthly List of East European Accessions, (EFAL), LC, Vol. 5, No. 3,
March, 1956

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P O L .

Influence of age of sugar-beet seeds on their seedling value. A.
Filutowska and W. Bejnar (*Roczn. Nauk rol.*, 1954, 89, A, 323-339).
—The age of the seeds has no effect on germinative vitality at
< 5 years; at 5-7 years, % germination is reduced, germination in
the field is slightly delayed, but no effects are observed with respect
to tendency to bolting, the value of the beets, or their susceptibility
to infection by *Cerospora beticola*.
P. S. ARUP.

BRUNCH, J.

Schemes for automatic control in boiler aggregates. p. 145.
TECHNICKA PRACA. (Statne nakladatelstvo techn'ckej literatury)
Vol. 6, no. 3, Mar. 1954.

SOURCE: East European Accessions List, Vol. 5, no. 9, September 1956

CULIK, J.; BEJSOVEC, M.

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lek.cesk 100 no.42:1332-1335 20 0 '61.

1. IV detska klinika KU v Praze, prednosta prof. MUDr. F. Blazek.
Neurologické oddeleni KUNZ v Usti n. L., prednosta prim. MUDr.
E. Ponca.

(SODIUM SALICYLATE pharmacol)
(GENTISATES pharmacol)
(GROWTH pharmacol)

BEJSOVEC, Miroslav

Report on the results of examination of patients suspected of disseminated sclerosis in the districts of Buchov and Dilana, Cesk. neurol. 25 no, 2: 111-115 Mr '62.

1. Neurologické oddelení KUNZ c Ustí n. L., prednosta MUDr. Evzen Ponca.

(MULTIPLE SCLEROSIS statist)